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A metallocene compound and an olefin polymerization catalyst containing the compound which are intended to provide a catalyst showing high catalytic activity in producing an isotactic polymer. The metallocene compound has a substituted cyclopentadienyl group and a (substituted) fluorenyl group which have been crosslinked with a hydrocarbon group, etc. The process for producing a metallocene compound is intended to selectively produce a specific metallocene compound while avoiding the generation of an isomer by synthesizing an intermediate by a specific method. The process for producing a polyolefin is intended to produce a polyolefin excellent in impact resistance, transparency, etc., and comprises polymerizing a C3-8 alpha -olefin alone or with other alpha -olefin in the presence of the olefin polymerization catalyst containing a metallocene compound.



